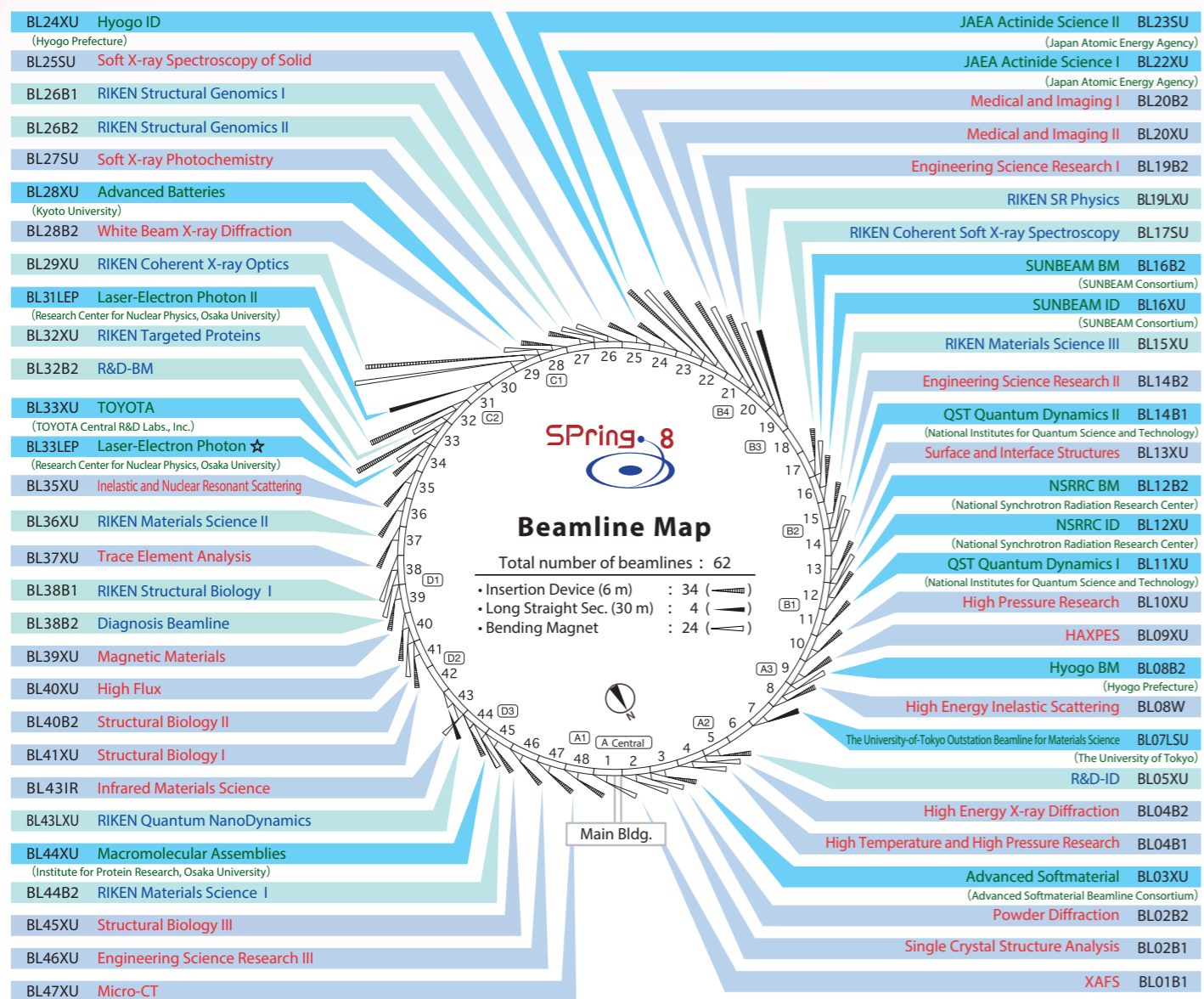


SPring-8 Beamline

Beamline Map

The beamlines are shown below with the names, source types and locations. The lengths of normal beamlines are designed to be less than 80 m from the source point. The lengths of nine and three beamlines are able to extend to 300 m and 1,000 m, respectively.



BL : Beamline
 B1,B2 : Bending Magnets
 XU : X-ray Undulator
 SU : Soft X-ray Undulator
 W : Wiggler
 IR : Infrared Radiation
 LEP : Laser-Electron Photon
 LXU : Long-length X-ray Undulator
 LSU : Long-length Soft X-ray Undulator

Public Beamlines
 Contract Beamlines
 RIKEN Beamlines
 ★ Planned or Under Construction

- Public Beamlines constructed by SPring-8 and opened for users in Japan and from overseas.
- Contract Beamlines constructed by external organizations for their exclusive use.
- RIKEN Beamlines constructed by RIKEN for its own research.

Tables of Beamlines in Use

Light source types and photon energies are designed according to each beamline's research requirements. Basic research equipment is installed in the experimental hutch.

SPring-8 Beamlines

	Public	Contract	RIKEN	Total
Operational	26	16	14	56
Under Construction	0	1	0	1
Total	26	17	14	57

Public Beamlines (26)

Name of Beamline	Beamline No.	Source	Photon Energy
XAFS	BL01B1	BM	3.8 ~ 113 KeV
Single Crystal Structure Analysis	BL02B1	BM	5 ~ 115 KeV
Powder Diffraction	BL02B2	BM	12 ~ 37 KeV
High Temperature and High Pressure Research	BL04B1	BM	20 ~ 150 KeV
High Energy X-ray Diffraction	BL04B2	BM	37.8 ~ 113.4 KeV
High Energy Inelastic Scattering	BL08W	W	110 ~ 300 KeV
HAXPES	BL09XU	U	4.91 ~ 12 KeV
High Pressure Research	BL10XU	U	6 ~ 61 KeV
Surface and Interface Structures	BL13XU	U	5 ~ 72 KeV
Engineering Science Research II	BL14B2	BM	3.8 ~ 72 KeV
Engineering Science Research I	BL19B2	BM	5 ~ 72 KeV
Medical and Imaging II	BL20XU	U	7.62 ~ 61 KeV
Medical and Imaging I	BL20B2	BM	5.0 ~ 113.3 KeV
Soft X-ray Spectroscopy of Solid	BL25SU	U	0.12 ~ 2 KeV
Soft X-ray Photochemistry	BL27SU	U	0.17 ~ 3.3 KeV
White Beam X-ray Diffraction	BL28B2	BM	5 ~ 200 KeV
Inelastic and Nuclear Resonant Scattering	BL35XU	U	1.44 ~ 100 KeV
Trace Element Analysis	BL37XU	U	4.5 ~ 113 KeV
Magnetic Materials	BL39XU	U	5 ~ 37 KeV
High Flux	BL40XU	U	8 ~ 17 KeV
Structural Biology II	BL40B2	BM	6.5 ~ 21 KeV
Structural Biology I	BL41XU	U	6.5 ~ 35 KeV
Infrared Materials Science	BL43IR	BM	10 meV ~ 2 eV
Structural Biology III	BL45XU	U	6.5 ~ 16 KeV
Engineering Science Research III	BL46XU	U	6 ~ 37 KeV
Micro-CT	BL47XU	U	5.2 ~ 37.7 KeV

Contract Beamlines (17)

Name of Beamline	Beamline No.	Source	Photon Energy
Advanced Softmaterial	BL03XU	U	6 ~ 35 KeV
The University-of-Tokyo Outstation Beamline for Materials Science (The University of Tokyo)	BL07LSU	U	0.25 ~ 2 KeV
Hyogo BM (Hyogo Prefecture)	BL08B2	BM	4.6 ~ 70 KeV
Hyogo ID (Hyogo Prefecture)	BL24XU	U	5 ~ 20 KeV
NSRRC ID (Taiwan)	BL12XU	U	4.5 ~ 30 KeV
NSRRC BM (Taiwan)	BL12B2	BM	7 ~ 35 KeV
SUNBEAM ID (13 companies)	BL16XU	U	4.5 ~ 40 KeV
SUNBEAM BM (13 companies)	BL16B2	BM	4.5 ~ 113 KeV
Advanced Batteries (Kyoto University)	BL28XU	U	4 ~ 46 KeV
TOYOTA	BL33XU	U	4 ~ 46 KeV
Laser-Electron Photon II (Osaka Univ.)	BL31LEP	LEP	1.4 ~ 2.9 GeV
Laser-Electron Photon (Osaka Univ.)	BL33LEP	LEP	1.5 ~ 2.9 GeV
Macromolecular Assemblies (Osaka Univ.)	BL44XU	U	6.5 ~ 17.7 KeV
QST Quantum Dynamics I (National Institutes for Quantum Science and Technology)	BL11XU	U	6 ~ 70 KeV
QST Quantum Dynamics II (National Institutes for Quantum Science and Technology)	BL14B1	BM	5 ~ 150 KeV
JAEA Actinide Science I (Japan Atomic Energy Agency)	BL22XU	U	5 ~ 70 KeV
JAEA Actinide Science II (Japan Atomic Energy Agency)	BL23SU	U	0.4 ~ 1.8 KeV

RIKEN Beamlines (14)

Name of Beamline	Beamline No.	Source	Photon Energy
RIKEN R&D-ID	BL05XU	U	7 ~ 15 KeV
RIKEN Materials Science III	BL15XU	U	
RIKEN Coherent Soft X-ray Spectroscopy	BL17SU	U	0.48 ~ 2.0 KeV
RIKEN SR Physics	BL19LXU	U	7.1 ~ 51 KeV
RIKEN Structural Genomics I	BL26B1	BM	6 ~ 17 KeV
RIKEN Structural Genomics II	BL26B2	BM	6 ~ 17 KeV
RIKEN Coherent X-ray Optics	BL29XU	U	4.4 ~ 56 KeV
RIKEN Targeted Proteins	BL32XU	U	12 ~ 15 KeV
RIKEN R&D-BM	BL32B2	BM	
RIKEN Materials Science II	BL36XU	U	4.5 ~ 35 KeV
RIKEN Structural Biology I	BL38B1	BM	6.5 ~ 14 KeV
RIKEN Diagnosis Beamline	BL38B2	BM	
RIKEN Quantum NanoDynamics	BL43LXU	U	1.44 ~ 25 KeV
RIKEN Materials Science I	BL44B2	BM	15.5 ~ 30.2 KeV